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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 112056-0003 7035 09/898,894 07/03/2001 Steven S. Watanabe EXAMINER 24267 10/27/2003 CESARI AND MCKENNA, LLP LEROUX, ETIENNE PIERRE 88 BLACK FALCON AVENUE ART UNIT PAPER NUMBER BOSTON, MA 02210 2171

DATE MAILED: 10/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.				
Pariod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address Pariod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Education of time may be available under the portisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled If the period for reply is equilable under the portisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled If the period for reply is equilable whether the portisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled If the period for reply is equilable whether the portisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled If the period for reply is equilable whether the portisions of the pariod will apply and will equilable to the provisions of the pariod will apply and will equilable to the provisions of the pariod will apply and will equilable to the pariod will apply and will equilable to the pariod will apply and will equilable to the pariod will apply and will equilable them adjustment. See 37 CFR 1.704(b). Status 1)		Application No.	Applicant(s)	
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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites "a log in the backup memory containing storage system transaction entries accumulated after a consistency point at which time results of **the transaction entries** are committed to the disk array" and furthermore, "an initiator process that establishes a swarm of messages with respect to **the transaction request entries** and delivers the swarm to the file system." There is insufficient antecedent basis for "the transaction entries" and also for "the transaction request entries." Still further, it is unclear whether the transaction entries are one and the same thing as the transaction request entries.

Claim 1 recites "A system for replay of a backup memory in a storage system" and "a log in the backup memory containing storage system transaction entries." It is unclear whether the above storage system is a single storage system or multiple storage systems. If it is a single storage system, the above limitation should be rewritten "a log in the backup memory containing the storage system transaction entries."

Claims 2-9 are rejected for being dependent from a rejected base claim.

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 and 8-19 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat No 5,440,726 issued to Fuchs et al (hereafter Fuchs '726).

Claim 1:

Fuchs '726 discloses:

- a log in the backup memory containing storage system transaction entries accumulated after a consistency point at which time results of the transaction entries are committed to the disk array [col 3, lines 28-33]
- an initiator process that establishes a swarm of messages with respect to the transaction request entries and delivers the swarm to the file system [abstract],
- and a disk information retrieval process in the file system that is carried out on the swarm of messages in parallel [Fig 1, items 50, 52, 54 and col 5, lines 57-65]

Claim 2:

Fuchs '726 discloses wherein each of the messages of the swarm is identified by a transaction block including a pointer to one of the transaction request entries in the log, respectively, and a state that indicates whether each of the messages is one of (a) newly transferred to the file system [col 3, lines 17-26].

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Claim 3:

Fuchs '726 discloses wherein the prerequisite event is completion of the load phase and a modify phase with respect to another of the messages [col 14, lines 11-32]

Claim 4:

Fuchs '726 discloses wherein the initiator process is adapted to retransfer each of the messages incapable of being subject to a load phase until the prerequisite event occurs to the file system for completion of the load phase after the prerequisite event occurs respectively [col 16, lines 39-53]

Claim 8:

Fuchs '726 discloses wherein the backup memory comprises a non-volatile random access memory (NVRAM) [col 3, line 5].

Claim 9:

Fuchs '726 discloses wherein the storage system comprises a network storage appliance [title]

Claim 10:

Fuchs '76 discloses:

- accumulating in a log in the backup memory, storage system transaction request entries
 after a consistency point at which time results of the transaction request entries are
 committed to the disk array [col 3, lines 28-33]
- establishing a swarm of messages with respect to the transaction request entries and
 delivering the swarm to the file system [abstract] and

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 performing a disk information retrieval process of the file system o the swarm of messages in parallel [Fig 1, items 50, 52 54 and col 5, lines 57-65].

Claim 11:

Fuchs '726 discloses wherein each of the messages of the swarm is identified by a transaction block including a pointer to one of the transaction request entries in the log, respectively, and a state that indicates whether each of the messages is one of (a) newly transferred to the file system [col 3, lines 17-26].

Claim 12:

Fuchs '726 discloses wherein the prerequisite event is completion of the load phase and a modify phase with respect to another of the messages [col 14, lines 11-32]

Claim 13:

Fuchs '726 discloses wherein the initiator process is adapted to retransfer each of the messages incapable of being subject to a load phase until the prerequisite event occurs to the file system for completion of the load phase after the prerequisite event occurs respectively [col 16, lines 39-53]

<u>Claim 14:</u>

Fuchs '726 discloses wherein the storage system comprises a network storage appliance [Fig 1, item 12 and col 5, lines 57-65]

Claim 15:

Fuchs '726 discloses:

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accumulating in a log in the backup memory, storage system transaction request entries
after a consistency point at which results of the transaction request entries are committed
to the disk array [col 3, lines 28-33]

- establishing a swarm of messages with respect to the transaction request entries and
 delivering the swarm to the file system [abstract] and
- performing a disk information retrieval process of the file system on the swarm of messages in parallel [Fig 1, items 50, 52 and 54, and col 5, lines 47-65].

Claim 16:

Fuchs '726 discloses:

establishing for each of the messages of the swarm, a transaction block including a pointer to one of the transaction request entries in the log, respectively, in the log and a state that indicates whether each of the messages is one of:

(a) newly transferred to the file system [col 3, lines 17-26],

Claim 17:

Fuchs '726 discloses wherein the prerequisite event is completion of the load phase and a modify phase with respect to another of the messages [col 14, lines 11-32]

Claim 18:

Fuchs '726 discloses wherein the initiator process is adapted to retransfer each of the messages incapable of being subject to a load phase until the prerequisite event occurs to the file system for completion of the load phase after the prerequisite event occurs respectively [col 16, lines 39-53]

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<u>Claim 19:</u>

Fuchs '726 discloses wherein the storage system comprises a network storage appliance [Fig 1, item 12 and col 5, lines 57-65].

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fuchs '726 in view of Pub No 2003/0131190 issued to Park et al (hereafter Park '190).

Claim 5:

Fuchs '726 discloses the elements of claim 4 as noted above.

Fuchs '726 fails to disclose wherein the initiator is adapted to establish a skip state with respect to a skipped messages for which a portion of the disk array associated therewith is unavailable, the skip state thereby omitting the skipped messages from the swarm

Park '190 discloses wherein the initiator is adapted to establish a skip state with respect to a skipped messages for which a portion of the disk array associated therewith is unavailable, the skip state thereby omitting the skipped messages from the swarm [paragraph 9].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fuchs '726 to include wherein the initiator is adapted to establish a skip state with respect to a skipped messages for which a portion of the disk array associated

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therewith is unavailable, the skip state thereby omitting the skipped messages from the swarm as taught by Park '190.

The ordinarily skilled artisan would have been motivated to modify Fuchs '726 per the above for the purpose of purpose of skipping defective sectors [paragraph 9].

5. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuchs '726 in view of US Pat No 6,330,570 issued to Crighton (hereafter Crighton '570).

Claim 6:

Fuchs '726 discloses the elements of claim 4 as noted above.

Fuchs '726 fails to disclose wherein the file system includes a panic state adapted to alert an operator if a message received from the initiator in the swarm is a message incapable of being subject to a load phase until a prerequisite event occurs.

Crighton '570 discloses a failure in reading a file or writing the file to the backup apparatus triggers a warning message [col 2, lines 34-36].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Fuchs '726 and Crighton '570 to obtain wherein the file system includes a panic state adapted to alert an operator if a message received from the initiator in the swarm is a message incapable of being subject to a load phase until a prerequisite event occurs.

The ordinarily skilled artisan would have been motivated to modify the combination of Fuchs '726 and Crighton '570 as per the above for the purpose of alerting an operator if a backup has not been successfully completed [col 2, lines 26-30].

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Claim 7:

Fuchs '726 discloses the elements of claim 4 as noted above.

Fuchs '726 fails to disclose wherein the file system includes a panic state adapted top alert an operator if a message is retransferred by the initiator process is a message incapable of being subject to a load phase until a prerequisite event occurs.

Crighton '570 discloses a failure in reading a file or writing the file to the backup apparatus triggers a warning message [col 2, lines 34-36].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Fuchs '726 and Crighton '726 to include wherein the file system includes a panic state adapted top alert an operator if a message is retransferred by the initiator process is a message incapable of being subject to a load phase until a prerequisite event occurs.

The ordinarily skilled artisan would have been motivated to modify the combination of Fuchs '726 and Crighton '570 as per the above for the purpose of alerting an operator if a backup has not been successfully completed [col 2, lines 26-30].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Etienne LeRoux whose telephone number is (703) 305-0620. The examiner can normally be reached on Monday – Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic, can be reached on (703) 308-1436.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Etienne LeRoux 4

October 17, 2003

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